numbers and features and services available in the end office where the customer is provisioned:

2.3.2. features and services to which the customer subscribes (LSP agrees that LSP's representatives will not access the information specified in this Subsection until after the customer requests that the customer's local exchange service provider be changed to LSP, and such request complies with conditions of Exhibit A.)

2.3.3. telephone number (if the customer does not have one assigned) with the customer on-line;

2.3.4. PIC options for intraLATA toll (when available) and interLATA toll;

2.3.5. address verification;

2.3.6. channel facility assignment (CFA), network channel (NC), and network channel interface (NCI) data.

2.4. Electronic Access to Pre-Order Functions: Upon request by LSP for electronic access to pre-ordering functions, SWBT will provide LSP access to one or more of the following systems:

2.4.1. Resale Services Pre-order System Availability:

2.4.2. Residential Easy Access Sales Environment (R-EASE): R-EASE is an ordering entry system to which SWBT will provide LSP access for the functions of pre-ordering SWBT's Resale services so long as EASE is utilized to order SWBT Residential Resale Services.

2.4.3. Business Easy Access Sales Environment (EASE): B-EASE is an ordering entry system to which SWBT will provide LSP access for the functions of pre-ordering SWBT's Resale services so long as such access is utilized to order SWBT's Business Resale Services.

2.5. Resale and UNE Pre-order System Availability:

2.5.1. DataGate: DataGate is transaction based data query system to which SWBT will provide LSP access for the functions of gathering pre-ordering information to support industry standardized ordering processes for Residential and Business Resale services. When ordering Resale services or UNE, LSP's representatives will have access to a pre-order electronic gateway provided by SWBT for both consumer and business customers that provides real-time access to SWBT's operations systems. This gateway shall be a Telecommunications Protocol / Internet Protocol (TCP/IP) gateway and will allow the LSP representatives to perform the pre-order functions for Resale services and UNE, as described above. SWBT and LSP agree to work together to develop and implement an electronic communication interface that will replace this initial pre-order electronic interface consistent with industry standards developed by the OBF and the TCIF.

2.6. UNE Pre-order System Availability:

2.6.1. VERIGATE is an Access Service Pre-order system that will also provide access to the pre-ordering functions for UNE. VERIGATE may be used in connection with electronic or

manual ordering and provisioning of UNE. VERIGATE provides optional pre-order capability of identifying CFA information, NC, and NCI codes that are associated with order requirements for UNE.

2.7. Where due dates are not available electronically, SWBT will provide LSP with due date interval for Resale design and complex services and UNE for inclusion in the service order request.

2.8. In addition to electronic interface access to pre-order information, upon request, SWBT will provide LSP pre-order information in batch transmission for the purposes of back-up data for periods of system unavailability. The parties recognize such information must be used to construct order requests only in exception handling.

3. ORDERING / PROVISIONING

3.1. SWBT will provide access to ordering functions to support LSP provisioning of Resale services and UNE via several electronic interfaces. Upon request, for electronic access to ordering functions, SWBT will provide LSP access to one or more of the following systems or interfaces:

3.2. Resale Services Order Request System Availability:

3.2.1. R-EASE is available for the generation of Residential Resale services orders. Ordering Flows will be available via these systems for the following ordering functions: Conversion (as is or with changes); Change (Features, Listings, Long Distance); New Connect; Disconnect; From and To (change of premises with same service).

3.2.2. B-EASE is available for the generation of Business Resale services orders. Ordering Flows will be available via these systems for the following ordering functions: Conversion (as is or with changes); Change (Features, Listings, Long Distance); New Connect; Disconnect; From and To (change of premises with same service).

3.2.3. SWBT will provide LSP with an Electronic Data Interexchange (EDI) Interface for transmission of industry standardized Resale service order requests in formats as defined by the Ordering and Billing Forum (OBF) and EDI mapping as defined by TCIF. LSPs requesting EDI ordering functionality, as described in Exhibit No. 83 of the Oklahoma Cause No. PUD 960000218, in advance of industry standards, will be made available as negotiated and implemented as mutually acceptable to SWBT and LSP.

3.3. UNE Service Order Request Ordering System Availability:

3.3.1. In ordering and provisioning UNE, LSP and SWBT will utilize mutually agreeable standard industry order formats and data elements developed by OBF and TCIF EDI. Where industry standards do not currently exist for the ordering and provisioning of UNE, LSP and SWBT agree to jointly develop a form for ordering Common-Use UNE. Common-Use UNE, including, without limitation, tandem switching, signaling and call-related databases, Operator Services and DA, and Operations Support Systems, shall be ordered in a manner that is consistent with OBF Access Service Request Process; in addition customized routing will be

ordered in the same manner. Customer Specific UNE, including, Local Loop (which includes NID), and unbundled Local Switching, and Interim Number Portability will be ordered consistent with the OBF Local Service Request (LSR) process.

3.4. SWBT will provision Resale Services and UNE as prescribed in LSP order requests. Access to status on such orders of Resale services and UNE will be provided via the following electronic interfaces:

3.5. Customer Network Administration (CNA) will allow LSP to check service order status via CNA.

3.5.1. In cases of industry standardized EDI ordering, SWBT will provide to LSP an EDI electronic interface for transferring and receiving orders, Firm Order Confirmation (FOC), service completion, and, as available, other provisioning data and information. SWBT will provide LSP with a FOC for each Resale and UNE. The FOC will contain but is not necessarily limited to: purchase order number, telephone number, Local Service Request number, due date, Service Order number, and completion date. Upon work completion, SWBT will provide LSP with an 855 EDI transaction based Order Completion that states when that order was completed. When available, SWBT will provide LSP an 865 EDI transaction based Order Completion.

3.6. A file transmission may be provided to confirm order completions for R-EASE or B-EASE order processing. This file will provide service order information of all distributed and completed orders for LSP, regardless of order entry mechanism.

4. MAINTENANCE / REPAIR

4.1. Two electronic interfaces are accessible to place, and check the status of, trouble reports for both Resale and UNE. Upon request, LSP may access these functions via the following methods:

4.1.1. Customer Network Administration (CNA) system access provides LSP with SWBT software that allows LSP to submit trouble reports and subsequently check status on trouble reports for LSP end-users. CNA will provide ability to review the maintenance history of a converted Resale LSP account.

4.1.2. Electronic Bonding Interface (EBI) is an industry standardized interface that is available for trouble report submission and status updates. This EBI will conform to ANSI standards T1:227:1995 and T1.228:1995, Electronic Communications Implementation Committee (ECIC) Trouble Report Format Definition (TFRD) Number 1 as defined in ECIC document ECIC/TRA/95-003, and all standards referenced within those documents, as mutually agreed upon by LSP and SWBT. Functions currently implemented will include Enter Trouble, Request Trouble Report Status, Add Trouble Information, Modify Trouble Report Attributes, Trouble Report Attribute Value Change Notification, and Cancel Trouble Report, as explained in [redacted]

5. BILLING

5.1. SWBT shall bill and shall send associated billing information to LSP as necessary to perform billing functions for Resale services and UNE. At minimum SWBT will provide LSP billing information in a paper format or via magnetic tape, as agreed to be LSP and SWBT.

5.2. Upon request, electronic access to billing information for Resale Services will also be available via the following interfaces:

5.2.1. LSP may receive a mechanized bill format via the industry standards EDI.

5.2.2. LSP may also view billing information through the CNA system.

5.2.3. SWBT shall provide the Usage/Toll Billable Records for Resale Services via EMR industry standard format with a daily feed.

5.3. Upon request, electronic access to billing information for UNE will also be available via the following interfaces:

5.3.1. SWBT will make available a mechanized bill data tape (local) format by February 1997.

5.3.2. LSP may also view billing information through the CNA system.

5.3.3. SWBT shall provide the Usage/Toll Billable Records for UNE via EMR industry standard format with a daily feed.

6. REMOTE ACCESS FACILITY

6.1. LSP may access SWBT's OSS functions via a Remote Access Facility (RAF) located in Dallas, Texas. RAF access will be required for LSP access to OSS functions for purposes of competitive activities. EASE, CNA, DATAGATE and VERIGATE will require access via the RAF.

6.2. LSP may use two types of access: Switched and Private Line. For Private Line connections, LSP shall provide its own router, circuit, and two Channel Service Units/Data Service Units (CSU/DSU). The demarcation point shall be the router interface at the RAF. Switched Access connections require LSP to provide its own modems and connection to the SWBT RAF. LSP shall pay the cost of the call if Switched Access is used.

6.3. LSP shall use TCP/IP to access SWBT OSS via the RAF. In addition, each LSP shall have a valid Internet Protocol (IP) network address. A user-id/ password unique to an LSP shall be maintained to access SWBT OSS's . LSP shall provide estimates regarding its volume of transactions, number of concurrent users, desired number of private line or dial-up (switched) connections, and length of a typical session.

6.4. LSP shall attend and participate in implementation meetings to discuss LSP RAF access plans in detail and schedule testing of such connections. SWBT shall make a Help Desk function available to assist LSP on an ongoing basis in accessing SWBT OSS's over the RAF.

7. OPERATIONAL READINESS TEST (ORT) FOR ORDERING/PROVISIONING

7.1. SWBT will participate with LSP in Operational Readiness Testing (ORT), which will allow for the testing of the systems, interfaces, and processes for the ordering and provisioning of Resale services. ORT will be completed in conformance with agreed upon implementation dates.

8. RATES

System Access	$3,385.00 per month
Remote Access Facility	
Direct Connection	$1,595.00 per port
Dial-Up Connection	$ 320.00 per port
Usage Billable Records	$0.003 per message

9. LIMITATION OF LIABILITY AND INDEMNIFICATION

The limitation of liability and indemnification provisions of the Agreement govern performance under this Appendix.

10. EFFECTIVE DATE, TERM

10.1 The Appendix OSS will be effective upon approval by the state commission when it approves it as a part of the Interconnection Agreement.

10.2 The Term of Appendix OSS will be the shorter of the Term of this Interconnection Agreement or two years from the effective date of such Agreement. Continuation of Appendix OSS follows the continuation rules of the Agreement.

1.1. Exhibit A - Appendix OSS

Blanket Certification for End-User Authorization for Release of Customer Proprietary Network Information (CPNI)

The undersigned hereby agrees:

Before it may obtain CPNI of an end-user, whether via an independent request or in the course of ordering SWBT's network elements or services via manual and/or mechanized interfaces, the undersigned must, at least, certify that "yes" (Y) it has obtained Authorization for Release of CPNI and provide the name of the individual authorizing the release of CPNI. By these indications, the undersigned affirms that a current Authorization for the Release of CPNI has been obtained from an end-user and that it includes the expressed content of the language, "Minimum Scope." SWBT will then provide the CPNI referenced herein.

Minimum Scope: Authorization for the release of CPNI

1) An affirmative written request that substantially reflects the following: "This document serves as instruction to all holders of my local exchange telecommunications Customer Proprietary Network Information (CPNI) to provide such information to the undersigned. I understand that this CPNI includes the following information: Billing Name, Service Address, Billing Address, Service and Feature subscription, Directory Listing Information, and Long Distance Carrier Identity. This Agency remains in effect until such time that I revoke it directly or appoint another individual/company with such capacity and undersigned receives notice to disconnect my local exchange service or notice that a service disconnect has been performed. At such time, this Agency is null and void."

or

2) Authorization for change in local exchange service with documentation that adheres to the requirement of state and federal (C.F.R 64.1110) law, as applicable.

_____
Signed

_____
Name (Typed/Printed)

_____
Title

_____
Company

_____
Date

APPENDIX AIN

AIN CALL RELATED DATABASE

Appendix AIN

AIN Call Related Database

AIN is a Network Architecture that uses distributed intelligence in centralized databases to control call processing and manage network information, rather than performing those functions at every switch.

SWBT will provide Cox access to the SWBT's Service Creation Environment (SCE) to design, create, test and deploy AIN-based features, equivalent to the access it provides to itself, when security arrangements have been made. Cox's requests to use the SWBT SCE will be subject to request and review procedures to be agreed upon by the Parties.

When Cox utilizes SWBT's Local Switching network element and requests SWBT to provision such network element with a technically feasible AIN trigger, SWBT will provide access to the appropriate AIN Call Related Database for the purpose of invoking either an SWBT AIN feature or a Cox developed AIN feature as per previous section.

When Cox utilizes its own local switch, SWBT will provide access to the appropriate AIN Call Related Database for the purpose of invoking either an SWBT AIN feature or a Cox developed AIN feature as per previous section.

SWBT will provide access to AIN Call Related databases in a nondiscriminatory and competitively neutral manner. Any mediation, static or dynamic, will only provide network reliability, protection, security and network management functions consistent with the access service provided. Any network management controls found necessary to protect the AIN SCP from an overload condition will be applied based on non-discriminatory guidelines and procedures either (1) resident in the SWBT STP that serves the appropriate AIN SCP or (2) via manual controls that are initiated from SWBT Network Elements. Such management controls will be applied to the specific problem source, where ever that source is, including SWBT, and not to all services unless a problem source cannot be identified.

As requested by Cox, SWBT will provide specifications and information reasonably necessary for Cox to utilize SWBT SCE as provided above.

SWBT SCP will partition and take reasonable steps to protect Cox service logic and data from unauthorized access, execution or other types of compromise, where technically feasible.

The limitation of liability and indemnification provisions of the Agreement shall govern performance under this Appendix.

APPENDIX 800

ACCESS TO THE TOLL FREE CALLING DATABASE

Appendix 800

ACCESS TO THE TOLL FREE CALLING DATABASE

This Appendix sets forth the terms and conditions under which SWBT provides Access to the Toll Free Calling Database.

I. DESCRIPTION

A. SWBT's 800 database, an ANSI SS7 call-related database system, receives updates processed from the national Service Management System (SMS). Customer records in the SMS are created or modified by entities known as Responsible Organizations (RespOrg) who obtain access to the SMS via the 800 Service Management System, Tariff F.C.C. No. 1. 800 Service Providers must either become their own RespOrg or use the services of an established RespOrg. The services of a RespOrg includes creating and updating 800 records in the SMS to download in the 800 database(s). SWBT does not, either through a tariff or contract, provide RespOrg service.

B. After the 800 customer record is created in the SMS, the SMS downloads the records to the appropriate databases, depending on the area of service chosen by the 800 subscriber. An 800 customer record is created in the SMS for each 800 number to be activated. The SMS initiates all routing changes to update information on a nationwide basis.

C. Access to the Toll Free Calling Database allows an LSP to access SWBT's 800 database for the purpose of switch query and database response. Access to the Toll Free Calling Database supports the processing of toll free calls (e.g., 800 and 888) where identification of the appropriate carrier (800 Service Provider) to transport the call is dependent upon the full ten digits of the toll free number (e.g., 1+800+NXX+XXXX). Access to the Toll Free Calling Database includes all 800-type dialing plans (i.e., 800 and 888 [and 877, 866, 855, 844, 833, 822, when available]).

D. Access to the Toll Free Calling Database provides the carrier identification function required to determine the appropriate routing of an 800 number based on the geographic origination of the call, from a specific or any combination of NPA/NXX, NPA or LATA.

E. There are three optional features available with 800 service: Designated 10-Digit Translation, Call Validation and Call Handling and Destination.

1. The Designated 10-Digit Translation feature converts the 800 number into a designated 10-digit number. If the 800 Service Provider provides the designated 10-digit number associated with the 800 number and requests delivery of the designated 10-digit number in place of the 800 number, SWBT will deliver the designated 10-digit number.

2. The Call Validation feature limits calls to an 800 number to calls originating only from an 800 Subscriber's customized service area. Calls originating outside the area will be screened and an out of band recording will be returned to the calling party.

3. The Call Handling and Destination feature allows routing of 800 calls based on one or any combination of the following: time of day, day of week, percent allocation and specific 10 digit ANI.

II. TERMS AND CONDITIONS

A. Access to the Toll Free Calling Database provided under these terms and conditions is only available for use in the provision of telephone exchange and exchange access telecommunications services as specified in the Telecommunications Act of 1996 and any effective rules and regulations of the Federal Communications Commission and the state Public Service Commission.

B. Access to the Toll Free Calling Database is offered separate and apart from other unbundled network elements necessary for operation of the network routing function addressed in these terms and conditions, e.g., end office 800 SSP functionality and CCS/SS7 signaling. This appendix is separate from the prices, terms, conditions and billing for such related elements, and in no way shall this appendix be construed to circumvent the prices, terms, conditions or billing as specified for such related elements.

C. LSP shall address its queries to SWBT's database to the alias point code of the STP pair identified by SWBT. LSP's queries shall use subsystem number 0 in the calling party address field and a translations type of 254 with a routing indicator set to route on global title. LSP acknowledges that such subsystem number and translation type values are necessary for SWBT to properly process queries to its 800 database.

D. Each Party warrants to the other that it shall send queries and SS7 messages conforming to the ANSI approved standards for SS7 protocol and pursuant to the Specifications and Standards documents attached and incorporated herein in Exhibit I. Both Parties acknowledge that transmission in said protocol is necessary for each Party to provision Access to the Toll Free Calling Database (or the equivalent thereof). Each Party reserves the right to modify its network pursuant to other specifications and standards, which may include Bellcore Specifications defining specific service applications, message types and formats, that may become necessary to meet the prevailing demands within the U.S. telecommunications industry. All such changes shall be announced in accordance with the then prevailing industry standard procedures. Each party shall work cooperatively to coordinate any necessary changes.

E. LSP acknowledges and agrees that CCS/SS7 network overload due to extraordinary volumes of queries and/or other SS7 network messages can and

will have a detrimental effect on the performance of SWBT's CCS/SS7 network and its 800 database. LSP further agrees that SWBT, at its sole discretion, may employ certain automatic and/or manual overload controls within SWBT's CCS/SS7 network to guard against these detrimental effects. SWBT shall report to the LSP any instances where overload controls are invoked due to the LSP's CCS/SS7 network. LSP shall take immediate, corrective actions as are necessary to cure the conditions causing the overload situation.

F. During periods of 800 database system congestion, SWBT shall utilize an automatic code gapping procedure to control congestion that may affect the service of all customers of SWBT's 800 database. The automatic code gapping procedure used by SWBT shall tell LSP's switch the gap (how long LSP's switch should wait before sending another query) and the duration (how long the switch should continue to perform gapping). For example, during an overload condition, the automatic code gapping procedure shall tell SWBT's 800 database when to begin to drop one out of three queries received. This code gapping procedure shall be applied uniformly to all users of SWBT's 800 database. SWBT reserves the right to manually invoke the automatic code gapping procedure to control congestion.

G. Prior to SWBT initiating service under this Appendix, LSP shall provide an initial forecast of busy hour query volumes. LSP shall update its busy hour forecast for each upcoming calendar year (January - December) by October 1 of the preceding year. LSP shall provide such updates each year for the first three (3) years of this Appendix. If, prior to the establishment of a mutually agreeable service effective date, in writing, SWB, at its discretion, determines that it lacks adequate processing capability to provide Access to the Toll Free Calling Database to LSP, SWBT shall notify LSP of SWBT's intent not to provide the services under this Appendix and this Appendix will be void and have no further effect.

H. LSP shall from time to time at SWBT's request, provide additional forecasted information as deemed necessary by SWBT for network planning in connection with this offering.

I. SWBT shall test the Access to the Toll Free Calling Database in conjunction with CCS/SS7 Interconnection Service (e.g., SS7 Appendix) as outlined in Bellcore Technical References TR-NWT-000533, TR-NWT-000954, TR-TSV-000905, and TP 76638.

J. LSP shall only use Access to the Toll Free Calling Database to determine the routing requirements for originating 800 calls. Neither the LSP nor carrier customers of the LSP if the LSP is acting on behalf of other carriers, shall use the database information to copy, store, maintain or create any table or database of any kind or for any purpose. If the LSP acts on behalf of other carriers to access SWBT's Toll Free Calling Database, LSP shall prohibit such carriers from copying, storing, maintaining, or creating any table or database of

any kind from any response provided by SWBT after a query to SWBT's Toll Free Calling Database. LSP shall only use this network element in connection with the provision of telephone exchange and exchange access services.

K. LSP shall ensure that it has sufficient link capacity and related facilities to handle its signaling and toll free traffic without adversely affecting other network subscribers.

L. SWBT shall provide Access to the Toll Free Calling Database as set forth in this Appendix only as such elements are used for LSP's activities on behalf of its Oklahoma local service customers where SWBT is the incumbent local exchange carrier. LSP agrees that any other use of SWBT's Toll Free Calling Database for the provision of 800 database service by LSP will be pursuant to the terms, conditions, rates, and charges of SWBT's effective tariffs, as revised, for 800 database services.

M. Unless sooner terminated, this Appendix will continue in force for two (2) years from the date of election (date on which Cox advises SWBT in writing of its intent to purchase services under this Appendix), but not to exceed three (3) years from the effective date of the Agreement. After the initial term, this Appendix shall continue in force and effect until terminated by one hundred-twenty (120) days notice in writing from either Party to the other.

N. Ordering and billing inquiries for the elements described herein shall be directed to the Local Service Provider Service Center (LSPSC). Ordering shall be done through the LSPSC using the standard LSP order form and SWBT CCS7-2 Form, if applicable.

III. RATE REGULATIONS

A. LSP shall pay a Local Service Order Request Charge for each LSP request for service order activity to establish Access to the Toll Free Calling Database.

B. LSP shall pay the rates for Access to the Toll Free Calling Database, as described in Section III D. These rates and charges will apply for one (1) year from the service effective date for each exchange. After one (1) year, SWBT may change the rates upon sixty (60) days' notice. SWBT may first give such notice sixty days before the end of the first year.

C. LSP shall pay a nonrecurring charge when an LSP establishes or changes a signaling point code. The rates and charges for Signaling Point Code(s) are described in the SS7 Appendix. This charge also applies to point code information provided by LSPs allowing other telecommunications providers to use the LSP's SS7 signaling network.

D. Prices for the four rate elements associated with Access to the Toll Free Calling Database are as follows:

		Rate per Query
1.	Toll Free Database Query Rate Element	$ 0.000712
2.	Designated 10-Digit Translation Rate Element	NC
3.	Call Validation Rate Element	NC
4.	Call Handling and Destination Rate Element	$ 0.000119

E. LSP shall pay the Toll Free Database query rate for each query received and processed by SWB's database. When applicable, the charge for the additional features (Designated 10-Digit Translation, Call Validation and Call Handling and Destination) are per query and in addition to the Toll Free Database query charge, and will also be paid by LSP.

IV. MONTHLY BILLING

SWBT shall render monthly billing statements to the LSP, and remittance in full will be due within 30 days of receipt.

V. LIMITATION OF LIABILITY AND INDEMNIFICATION

The limitation of liability and indemnification provisions of the Agreement shall govern performance under this Appendix.

APPENDIX 800
EXHIBIT I

SPECIFICATIONS AND STANDARDS

Description of Subject Area and Issuing Organization	Document Number
Bellcore, SS7 Specifications	
	TR-NWT-000246
	TR-NWT-000271
	TR-NWT-000533
Bellcore, CCS Network Interface Specifications	
	TR-TSV-000905
	TP 76638
	TR-NWT-000954

APPENDIX SS7

Appendix SS7

APPENDIX FOR THE PROVISION OF SS7 SERVICE

This Appendix sets forth the terms and conditions under which, at Cox's election, SWBT shall provide to Cox certain Common Channel Signaling/Signaling System 7 (CCS/SS7) services, herein referred to as "SS7 Service".

This Appendix provides for the use of the SWBT Common Channel Signaling network, which uses the Signaling System 7 (SS7) protocol, and for a Dedicated Signaling Link, which provides network interconnection to SWBT's Signal Transfer Point (STPs), including facilities. SS7 Service provides CCS/SS7 functionality and translations to support SS7 based services and applications as they become available and as facilities permit.

SS7 Service includes the screening of messages based on origination signaling point code and the routing of messages by a SWBT mated pair of STPs. Any services beyond SS7 Transport, Use of the STP or a Dedicated Signaling Link interconnection (e.g. Local and IntraLATA Call Set-Up Signaling, Interexchange Carrier (IXC) Call Set-Up Signaling, Easy Options^{SM}, 800 Data Base Access, and Line Information Data Base (LIDB) Validation Service Access) will be provided by an amendment to this appendix, by a separate agreement, or by tariff, whichever is applicable. Arrangements for services should be made through the Cox Service Center of SWBT.

I. SERVICE DESCRIPTION

A. SS7 Transport

SS7 Transport provides for the routing and screening of SS7 messages from a SWBT pair of STPs (i.e. a mated pair) to another SWBT pair of STPs. The screening of messages provides for Cox designation of signaling points associated with the Cox and controls which messages may be allowed or not allowed by the SWBT STP pairs. The routing of messages provides for the transfer of a complete message between signaling links, and for a Global Title Translation of the message address, if needed.

SS7 Transport provides routing of messages for all parts of the SS7 protocol including, for example, Message Transfer Part (MTP) messages, Integrated Services Digital Network User Part (ISDNUP or ISUP) messages, Signaling Connection and Control Part (SCCP) messages, Transaction Capability

Application Part (TCAP) messages and Operations and Maintenance Application Part (OMAP) messages.

SS7 Transport provides for screening and routing of signaling messages based on the SS7 protocol. These messages may support other applications and services such as, for example, Easy Option (referred to as Call Control Option or Bellcore CLASS) services, Message Waiting services, Toll Free Database services, Line Information Data Base (LIDB) Services, Calling Name (CNAM) Database services, Advanced Intelligent Network (AIN) services and Telecommunications Industry Association Interim Standard-41 (IS-41) services. SS7 Transport will route messages to the global title address or to the signaling point code address of the message based on the translation information of SWBT's STP.

SS7 Transport provides screening and routing of messages that are generated by the action of the Cox signaling point, or messages that are generated by a signaling point connected via the Cox signaling point.

B. Dedicated Signaling Links

Dedicated Signaling Links provide physical access to SWBT's signaling network. The links are fully dedicated to the use of Cox and provide the screening and routing usage for the SWBT STP to which the link is connected. Dedicated signaling links are provided as a set of links connecting to a SWBT mated pair of STPs. Dedicated Signaling Links are dedicated two-way digital data circuits that interconnect SWBT's STP locations and the Cox's Signaling Points at Signaling Point of Interface (SPOI) locations. Dedicated Signaling Links are available to Cox for its use in furnishing SS7-based services or applications to Cox'send users or other users of SS7 signaling information.

Dedicated Signaling Links include the following elements:

1. SS7 Link Cross Connect: The SS7 Link Cross Connect provides a DS-0 or DS1 connection and access point for testing in the SWBT STP building. The cross connect connects the STP Port Termination to a Cox unbundled dedicated transport or to a collocation cage.

2. STP Port Termination: The STP Port Termination is the physical termination of the signaling link (i.e. 56 kbps circuit) at a SWBT STP. An STP Port Termination is used for each 56 kbps SS7 Link Cross Connect terminated at a SWBT STP.

The STP Port Termination shall provide for the use of the SWBT STP to which the port is connected.

Cox shall provide the portion of the signaling link from the Cox premises within the LATA to the SWBT STP location using unbundled dedicated transport. Cox shall notify SWBT that the facility contains a signaling link service. Multiple facilities provided by SWBT will be identified so that SWBT may maintain facility diversity between links and link sets that require diversity. Cox shall identify the DS1 or channel of a DS1 that will be used for the signaling link.

If Cox does not use an unbundled dedicated transport facility to Cox premises, Cox shall identify that the SS7 Link Cross Connect shall connect to a Cox collocation cage in the SWBT STP building.

When Cox uses an alternative DS1 facility or arranges, or agrees to allow, a physical degree of diversity or performance that is not in accordance with the specifications of Bellcore, GR-905-CORE, Cox acknowledges that the performance and reliability of the SS7 protocol may be affected and the performance and reliability standards described in GR-905-CORE may be disqualified.

Dedicated Signaling Links are subject to SWBT compatibility testing and certification requirements per the Network Operations Forum Reference Document, per Bellcore, GR-905-CORE and per SWBT Technical Publication, TP76638. First interconnections to the SWBT signaling network per Cox and per signaling point type of equipment will require pre-ordering meetings to exchange information and schedule testing for certification by SWBT.

C. Use of the STP

The Use of the STP provides for the use of the SWBT SS7 signaling network when Cox uses the SWBT Local Switching Unbundled Network Element. The Use of the STP provides for: the use of the signaling link between the SWBT local switch and the STP; the use of the signaling link and ports between the SWBT tandem switch and the STP when applicable; and the use of the SWBT STP port and use of STP Transport. The Use of the STP is a signaling network element incurred by use of the SWBT local switching (i.e. Unbundled Local Switching). The Use of the STP provides the SWBT signaling when Cox subscribers originate and terminate calls from a SWBT SS7 equipped end office.

II. DEFINITIONS

Attachment 1, which is attached hereto and made a part hereof, contains the **DEFINITIONS OF TERMS** for this Appendix.

III. MANNER OF PROVISIONING

A. SS7 Transport

Cox shall use SS7 Transport subject to the screening and routing information of the SWBT STPs. SWBT shall provide information to Cox on the routes and signaling point codes served by the SWBT STPs.

SS7 Transport shall route ISUP messages for the purpose of establishing trunk voice paths between switching machines. Routes requiring ISUP routes longer than two SWBT STP pairs may be provisioned pursuant to the Attachment "Network Element Bona Fide Request" per specific Cox request, if such route is technically feasible. However, routes involving signaling point codes not associated with Cox are subject to the route designated by the owner of the SPC.

SS7 Transport shall route TCAP queries when feasible per the SS7 Protocol to the SWBT "regional" STP pair that directly serves the database of TCAP message. SS7 Transport shall route TCAP responses from a SWBT "regional" STP pair to another SWBT STP pair.

When Cox requires modification of SWBT's SS7 Service components not otherwise provided in this contract, the modifications may be furnished pursuant to the Attachment "Network Element Bona Fide Request".

SS7 Transport provides a signaling route for messages only to signaling points to which SWBT has a route. SS7 Transport does not include the provision of a signaling route to every possible signaling point. When SWBT does establish a route to a signaling point in a mated pair of STPs, the route may not be available to other SWBT pairs of STPs, until ordered. When SWBT or Cox, pursuant to a service order, arranges to establish a route to a signaling point, such route to the other signaling point or other signaling network will be used by all signaling points within and connected to the SWBT signaling network per the standard requirements of the SS7 protocol.

Disputes concerning the association of a signaling point among specific link sets associated with a SWBT mated STP will be resolved by consultation with the signaling point owner, as defined in the Local Exchange Routing Guide (LERG), Section 1, assignment of Signaling Point Codes.

B. Dedicated Signaling Links

Cox shall designate the signaling points and signaling point codes associated with Cox. Cox shall provide information to SWBT to allow SWBT to translate SWBT STPs. The information shall define the screening and routing information for the signaling point codes of Cox. This information may include global title address, translation type and subsystem designations as needed.

Signaling links from SWBT mated pairs of STPs shall connect to Cox premises (including collocation locations) within the same LATA. A set of links can be either:

1. "A" Link Sets from Cox's Signaling Point (SP)/Service Switching Point (SSP). A minimum of two links will be required, one from the SP/SSP to each STP; or,

2. "B" Link Sets from Cox's STPs that are connected to SWBT's mated pair of STPs. A minimum of four links will be required (i.e., a "quad") between the two pairs of STPs. (This same arrangement is sometimes referred to as a set of "D" links.)

An STP Port Termination and SS7 Link Cross Connect is required for each 56 kbps access link utilized for the Service. STP locations are set forth in the National Exchange Carrier Association, Inc. (NECA) Tariff F.C.C. No. 4.

A pre-order meeting will define the SWBT facility availability and the degree of diversity in both the SWBT physical network and the Cox physical network from signaling point to signaling point for the link.

All applicable signaling point codes for each signaling link must be installed at each of SWBT's interconnecting STPs.

Call set-up times may be adversely affected when Cox, using SS7 signaling, employs Intermediate Access Tandems (IATs) in its network. SWBT makes no warranties with respect to call set-up times when multiple STP pairs are involved or when the signaling traffic is exchanged between two non-SWBT signaling points.

Provisioning of the SS7 Service is in accordance with SWBT CCS/SS7 Network Interface Specifications (TP76638) and Bellcore Common Channel Network Interface Specification (GR-905-CORE), as amended.

When Cox uses the Dedicated Signaling Links of another party and Cox submits an order for SWBT to change the routing or screening information associated with the other party's signaling links, Cox shall include with the order a Letter of

Authorization (LOA). The LOA shall be from the other party (i.e. the owner of the set of links) and shall indicate that the other party shall agree to pay SWBT charges to change the translations associated with the link set and shall agree to pay SWBT charges associated with SS7 Transport.

C. Use of the STP

When Cox orders SWBT Unbundled Local Switching the Use of the STP shall apply. No order nor provisioning by Cox is needed. The SWBT Local Switch will use the SWBT SS7 signaling network.

Any changes, additions or deletions to the SWBT SS7 signaling network required per Cox shall be submitted pursuant to Attachment Network Element Bona Fide Request.

IV. DESCRIPTION OF RATE ELEMENTS

The following rate elements apply to SS7 Service:

A. SS7 Transport

SS7 Transport shall be measured per octet of information screened and routed.

Cox shall pay SS7 Transport Per Octet rate element for the screening and routing of messages by each additional SWBT STP pair. A usage rate applies per octet generated by action of Cox.

B. Dedicated Signaling Links

1. SS7 Link Cross Connect

Cox shall pay the DS-0 or DS-1 rate for the SS7 Link Cross Connect at the STP location for each Dedicated Signaling Link. Rates are per DS-0 and DS-1 bandwidth and per connection to unbundled dedicated facility or connection to a collocation cage. Rates are per month and nonrecurring installation per first or additional cross connects ordered per order.

2. STP Port Termination

Cox shall pay the STP Port Termination rate element for each termination of the SS7 Link Cross Connect at the SWBT STP. One STP Port Termination must be installed at SWBT's interconnecting STP for each Dedicated Signaling Link.

There are two charges that apply to the STP Port Termination, i.e., a fixed recurring monthly rate per port termination and a nonrecurring installation charge per port.

C. Signaling Point Code Addition

Cox shall pay the Signaling Point Code Addition rate element for the establishment and translation of each applicable CCS network signaling point code at a SWBT STP. Cox shall pay a nonrecurring charge per Signaling Point Code established at each STP.

D. Global Title Translation (GTT) Addition

Cox shall pay the GTT Addition rate element for the establishment of Cox's global title address, translation type or subsystem information in the SWBT STP translations. Cox shall pay a nonrecurring charge per GTT established at each STP.

E. Service Rearrangement

Cox shall pay charges for rearrangement of the SS7 Service which are not specifically addressed pursuant to the Network Element Bona Fide Request process.

F. Use of the STP Per Call

Cox shall pay the Use of the STP Per Call rate element for Use of the SWBT STP. The rate shall apply for each call originated by Cox subscribers using the SWBT Local Switch Unbundled Network Element. The rate is based on an assumed mean quantity of 200 octets of signaling used for each originated call times the STP Transport rate element.

The Use of the STP Per Call is a surrogate for STP Transport and Dedicated Signaling Links when Cox uses the SWBT Unbundled Local Switching Network Element.

V. RATES AND CHARGES

Prices are as follows:

	Monthly Recurring				
Nonrecurring Charge					
SS7 Links - Cross Connects	Zone A	Zone B	Zone C	Initial	Add'l
STP to Collocators Cage - DS0	$70.75	$70.75	$70.75	$249.60	$196.50
STP to Collocators Cage- DS1	$51.15	$51.15	$51.15	$222.50	$169.40
STP to SWBT MDF - DS0	$70.75	$70.75	$70.75	$249.60	$196.50
STP to SWBT DSX Frame-DS1	$51.15	$51.15	$51.15	$222.50	$169.40
SS7 Links					
STP Access Connection - 1.544 Mbps	See Dedicated Transport				
STP Access Link - 56 Kbps	$100.16 fixed + $0.91 per mile				
SS7 Signaling					
SS7 Signaling	$0.00028 per call				
STP Port	$1,001.40 per port			$270.65	---
STP Trunk Signaling	$0.00000138 per octet				
Point Code Addition	N/A per point code			$14.25	---
Global Title Translation Addition	ICB			ICB	ICB

VI. ORDERING THE SERVICE

Cox shall abide by the following ordering guidelines:

A. SS7 Transport

Cox shall submit SWBT's CCS/SS7 Activity Notification Form, identify the set of links the Cox will use and identify the service(s) associated with each SPC. Cox shall identify Signaling Point Code and Global Title Translation information that must be translated into the SWBT STPs.

B. Dedicated Signaling Links

Cox shall submit an Access Service Request form and SWBT's CCS Activity Notification form. Cox shall identify the SWBT STPs, the Cox premises, the circuit interconnection arrangement at the Cox Dedicated Transport location and the Cox signaling point. Cox shall identify Signaling Point Code and Global Title Translation information that must be translated in the SWBT STPs.

C. **Signaling Point Code Addition**

Cox shall submit a SWBT CCS Activity Notification form. Cox shall identify the SWBT STPs and the Cox signaling point code information that must be added or changed in the SWBT STP translations. If more than one pair of SWBT STPs are affected, Cox shall indicate translation route information.

D. **Global Title Translation (GTT) Addition**

Cox shall submit a SWBT CCS Activity Notification form. Cox shall identify the SWBT Global Title Translation information that must be added, deleted or changed in the SWBT STP translations. If more than one pair of SWBT STPs are affected, Cox shall indicate translation route information.

E. **Service Rearrangement**

Cox shall order a SS7 Signaling Service Rearrangement per Attachment Network Element Bona Fide Request.

F. **Use of the STP**

Ordering requirements for the Use of the STP are included in the requirements set forth in the ordering clause of the Local Switching UNE (Attachment Switching), and are incorporated here by reference.

VII. RESPONSIBILITIES OF SWBT

A. SWBT shall manage the network and, at its sole discretion, apply protective controls. Protective controls include actions taken to control or minimize the effect of network failures or occurrences, which include, but are not limited to, failure or overload of SWBT or Cox facilities, natural disasters, mass calling or national security demands.

B. SWBT shall determine the GTT and Translation Type (TT) route for messages routed to GTT which are associated with SWBT signaling points.

C. SWBT shall define regional functions and local functions of its STPs. SWBT will route ISUP messages within the SWBT signaling network subject to technical feasibility. Capacity limitations shall define a temporary technical infeasibility until the capacity limit can be resolved.